

Title (en)  
CONTEXT-AWARE OBJECT DETECTION IN AERIAL PHOTOGRAPHS/VIDEOS USING TRAVEL PATH METADATA

Title (de)  
KONTEXTBEWUSSTE OBJEKTDETEKTION IN LUFTAUFNAHMEN/VIDEOS MIT VERFAHRWEG-METADATEN

Title (fr)  
Détection d'objet sensible au contexte dans des photographies aériennes/des vidéos au moyen de métadonnées de trajectoires

Publication  
**EP 2930686 B1 20200902 (EN)**

Application  
**EP 15152754 A 20150127**

Priority  
US 201414247398 A 20140408

Abstract (en)  
[origin: EP2930686A1] A system and a method for real-time detection of a moving object on a travel path in a geographical area is provided. The system and method may also be used to track such a moving object in real-time. The system includes an image capturing device for capturing successive images of a geographical area, a geographical reference map comprising contextual information of the geographical area, and a processor configured to calculate differences between successive images to detect, in real-time, a moving object on the travel path. The method includes capturing successive images of the geographical area using the image capturing device, geo-registering at least some of the successive images relative to the geographical reference map, and calculating differences between the successive images to detect, in real-time, an object.

IPC 8 full level  
**G06T 7/136** (2017.01); **G06T 7/194** (2017.01); **G06T 7/38** (2017.01)

CPC (source: BR EP US)  
**B64D 47/08** (2013.01 - US); **G01C 11/04** (2013.01 - BR); **G06F 18/22** (2023.01 - US); **G06T 1/00** (2013.01 - BR); **G06T 7/00** (2013.01 - BR); **G06T 7/136** (2016.12 - EP US); **G06T 7/194** (2016.12 - EP US); **G06T 7/20** (2013.01 - BR); **G06T 7/38** (2016.12 - EP US); **G06V 20/182** (2022.01 - US); **G06V 20/46** (2022.01 - US); **G01C 11/00** (2013.01 - BR); **G06T 2207/10016** (2013.01 - EP US); **G06T 2207/10032** (2013.01 - EP US); **G06T 2207/20224** (2013.01 - EP US)

Cited by  
CN110192235A; US10560666B2; WO2018136370A3

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2930686 A1 20151014**; **EP 2930686 B1 20200902**; BR 102015003962 A2 20160726; BR 102015003962 B1 20210601; CN 104978390 A 20151014; CN 104978390 B 20201103; JP 2015201183 A 20151112; JP 6726932 B2 20200722; KR 102400452 B1 20220519; KR 20150116777 A 20151016; US 2015286868 A1 20151008; US 9734399 B2 20170815

DOCDB simple family (application)  
**EP 15152754 A 20150127**; BR 102015003962 A 20150224; CN 201510161125 A 20150407; JP 2015062049 A 20150325; KR 20150043202 A 20150327; US 201414247398 A 20140408